

THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Drive Nashville, TN 37204 Tel: (615)726-0177

TestAmerica Job ID: 490-27489-1 Client Project/Site: Everett Terminal

#### For:

Exxon Global Remed. Grp 52 Beacham Street Everett, Massachusetts 02149

Attn: Mr. Ernest E Haynes



Authorized for release by: 5/28/2013 1:05:31 PM

Gail Lage, Senior Project Manager gail.lage@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

TestAmerica Job ID: 490-27489-1

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# **Sample Summary**

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

Lab Sample ID

490-27489-1

TestAmerica Job ID: 490-27489-1

Client Sample ID	Matrix	Collected	Received
Outfall 01A-TSS - 1	Water	05/24/13 04:00	05/25/13 08:30

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#### **Case Narrative**

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

TestAmerica Job ID: 490-27489-1

Job ID: 490-27489-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-27489-1

#### Receipt

The samples were received on 5/25/2013 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2° C.

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## **Definitions/Glossary**

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

TestAmerica Job ID: 490-27489-1

## **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## **Client Sample Results**

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

TestAmerica Job ID: 490-27489-1

Client Sample ID: Outfall 01A-TSS - 1

Lab Sample ID: 490-27489-1

Date Collected: 05/24/13 04:00 Date Received: 05/25/13 08:30 Matrix: Water

 General Chemistry
 Analyte
 Result Total Suspended Solids
 Qualifier
 RL RL MDL Unit MDL Wint MDL Wint MDL MDL Wint MDL WIN

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## **QC Sample Results**

Client: Exxon Global Remed. Grp

Lab Sample ID: MB 490-81922/1

**Matrix: Water** 

Analyte

**Analysis Batch: 81922** 

Analysis Batch: 81922

**Total Suspended Solids** 

Method: SM 2540D - Solids, Total Suspended (TSS)

TestAmerica Job ID: 490-27489-1

Project/Site: Everett Terminal

Client Sample ID: Method Blank

Prep Type: Total/NA

мв мв Result Qualifier RL MDL Unit Dil Fac D Prepared Analyzed 1.00 0.600 mg/L 05/25/13 13:42 <0.600

Unit

D

%Rec

Limits

Lab Sample ID: LCS 490-81922/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 81922 Spike LCS LCS %Rec. Analyte Added Result Qualifier

**Total Suspended Solids** 101 99.40 mg/L 99 90 - 110

Lab Sample ID: 490-27363-L-1 DU **Client Sample ID: Duplicate Matrix: Water** Prep Type: Total/NA

DU DU RPD Sample Sample Result Qualifier Result Qualifier Unit **RPD** Limit Total Suspended Solids <0.600 <0.600 NC 20 mg/L

Client Sample ID: Duplicate Lab Sample ID: 490-27461-A-7 DU **Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 81922** DU DU RPD Sample Sample

Analyte Result Qualifier Result Qualifier Unit Limit Total Suspended Solids 264 272.0 mg/L 20

# **QC Association Summary**

Client: Exxon Global Remed. Grp TestAmerica Job ID: 490-27489-1 Project/Site: Everett Terminal

## **General Chemistry**

Analysis Batch: 81922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-27363-L-1 DU	Duplicate	Total/NA	Water	SM 2540D	
490-27461-A-7 DU	Duplicate	Total/NA	Water	SM 2540D	
490-27489-1	Outfall 01A-TSS - 1	Total/NA	Water	SM 2540D	
LCS 490-81922/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 490-81922/1	Method Blank	Total/NA	Water	SM 2540D	

## **Lab Chronicle**

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

TestAmerica Job ID: 490-27489-1

Lab Sample ID: 490-27489-1

Matrix: Water

Client Sample ID: Outfall 01A-TSS - 1 Date Collected: 05/24/13 04:00

Date Received: 05/25/13 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	81922	05/25/13 13:42	DM	TAL NSH

#### Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

## **Method Summary**

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

TestAmerica Job ID: 490-27489-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL NSH

**Protocol References:** 

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica Job ID: 490-27489-1

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

### Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Dat
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-13 *
California	NELAP	9	1168CA	10-31-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Illinois	NELAP	5	200010	12-09-13
owa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	05-31-14 *
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
JSDA	Federal		S-48469	11-02-13
Jtah	NELAP	8	TAN	06-30-13
Virginia	NELAP	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA		453.07	12-31-13

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 $<sup>^{\</sup>star}$  Expired certification is currently pending renewal and is considered valid.

TestAmerica Nashville

## COOLER RECEIPT I



Cooler Received/Opened On5/25/2013 @ 0830	ially of Galace sy
1. Tracking #(last 4 digits, FedEx)	
Courier:Fedex IR Gun ID17960358	
2. Temperature of rep. sample or temp blank when opened:	
3. If Item #2 temperature is $0^{\circ}$ C or less, was the representative sample or temp blank frozen?	YES NO. TNA
4. Were custody seals on outside of cooler?	ÉSNONA
If yes, how many and where:	
5. Were the seals intact, signed, and dated correctly?	€8NONA
6. Were custody papers inside cooler?	(E)NONA
I certify that I opened the cooler and answered questions 1-6 (intial)	
7. Were custody seals on containers:  YES  NO  and Intact	YESNONA
Were these signed and dated correctly?	YESNONA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper	Other None
9. Cooling process: (Ce) Ice-pack Ice (direct contact) Dry ice	Other None
10. Did all containers arrive in good condition (unbroken)?	(YES)NONA
11. Were all container labels complete (#, date, signed, pres., etc)?	(ES)NONA
12. Did all container labels and tags agree with custody papers?	ESNONA
13a. Were VOA vials received?	YESNONA
b. Was there any observable headspace present in any VOA vial?	YESNONA
14. Was there a Trip Blank in this cooler? YESNO. NA If multiple coolers, sequence	e #_ <b>\_A</b> _
I certify that I unloaded the cooler and answered questions 7-14 (intial)	Œ
15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level?	YESNO.
b. Did the bottle labels indicate that the correct preservatives were used	ESNONA
16. Was residual chlorine present?	YESNONA
I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)	E
17. Were custody papers properly filled out (ink, signed, etc)?	YESNONA
18. Did you sign the custody papers in the appropriate place?	(FS)NONA
19. Were correct containers used for the analysis requested?	(ESNONA
20. Was sufficient amount of sample sent in each container?	YESNONA
I certify that I entered this project into LIMS and answered guestions 17-20 (intial)	E-
I certify that I attached a label with the unique LIMS number to each container (intial)	F
21. Were there Non-Conformance issues at login? YES. NO Was a NCM generated? YES.	<u>ش</u> #

THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN 37204 2960 Foster Creighton Nashville Division

Toll Free: 800-765-0980 Phone: 615-726-0177

Fax: 615-726-3404

**EXONMobil** 

27489

5/28/2013

Constant Name Name Name Name Name Name Name Name	Reinquisned by:			Relinquished by:	C	Laboratory case narative to NELAC institute standard protocol,	Comments/Special Instructions:		1 1001	7.00	Outfall 01 A-TSS - 3	Outfall 01 A-TSS - 2	Outfall 01 A-TSS - 1	Sample ID or Field ID				Sampler Signature:	Sampler Name: (Print) Visoth	Consultant Telephone Number: 617-381-2802	•	Consultant Project M	ExxonMobil Project Mgr: Emest Hayes	City/State/Z	Consultant Nan Addres	Caracillant Nan
TA Account #:  Invoice To, [Eccontable] PM unless differential indicabled)  Report To: Searing (DM pm poly):  Reputatory District (CA)  Reputatory District (CA)  Reputatory District (CA)  Monthly  Outer (specify):  HOLD FOR ANALYSIS  Laboratory Comments:  Laborato	Date		CF 524. 13	Date		RUS	· Commence of the commence of				16	-	5-24-13 04				0.	ie of	nt) Visoth Sheng	er: 617-381-2802		gr: Triumvirate - Sand	gr: Emest Hayes	ip: Everett MA 02149	ss: 52 Beacham Stree	
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TA Account #:  Invoice to   To   Control   PM unites difference indicated)  Report 17   Spern (Riffurn/Wright com: emest e havnes@exconmobil.com  PROJECT #: NPDES Permit M-00000833  Facility (Day  Site Address SAME  Other (CA)  Analyza For:  Outerfely  HOLD FOR ANALYSIS  HOLD FOR ANALYSIS  HOLD FOR ANALYSIS  1 L plastic  1 L plastic  1 L plastic  1 L plastic  Temperature Upon Receipt  Sample Containers Intact?  VOCs Free of Headageo?  VOCs Free of Headageo?  VOCs Free of Headageo?  VOCs Free of Sample Containers and the sample of Sample Containers and the sa	F-1						***************************************								z								İ			
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erwise indicated)  1: ermest e haynes@exxonmobil.com  1: ermest e haynes@exxonmobil.com  1: plasfic  1	onsultant to noti√the Te y phone or fax tratarus A Proied Manac⊲r	It will be the responsibilit	evel 2	C Deliverables (please o	VOCs Free	Temperatur	aboratory Comments:				NALYSIS	NALYSIS			Quarterly					AME		PDES Permit MADDON		nemv@triumvirate c	xxonMobil PM unless	
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Page 13 of 14												_														

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## **Login Sample Receipt Checklist**

Client: Exxon Global Remed. Grp Job Number: 490-27489-1

Login Number: 27489 List Source: TestAmerica Nashville

List Number: 1 Creator: Ford, Easton

Creator: Ford, Easton		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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